

Title (en)
METHOD AND APPARATUS FOR IMPLEMENTING GASIFICATION BY COMBINING CIRCULATING FLUIDIZED BED AND PYROLYSIS BED

Title (de)
VERFAHREN UND VORRICHTUNG ZUR VERGASUNG DURCH KOMBINATION AUS ZIRKULIERENDEM WIRBELBETT UND PYROLYSEBETT

Title (fr)
PROCÉDÉ ET APPAREIL POUR METTRE EN OEUVRE UNE GAZÉIFICATION PAR COMBINAISON D'UN LIT FLUIDISÉ CIRCULANT ET D'UN LIT DE PYROLYSE

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Application
EP 17893195 A 20170613

Priority

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Abstract (en)
[origin: EP3540031A1] The present invention provides a method and an apparatus for implementing gasification by combining circulating fluidized bed and pyrolysis bed, which relates to coal gasification technologies. The method comprises: first implementing pyrolysis and gasification of raw coal by using a circulating fluidized bed gasifier (2) to convert the coal to a gas without producing pollutants, such as tar, performing gas-solid separation by using a cyclone separator (3); and then, gasifying and burning out separated semi-coke and the like by using a pyrolysis bed gasifier (11), and introducing the gasified gas after removing fly ash through a deposition chamber (4) into a gas delivery pipe. The technical solution achieves a high raw coal gasification rate, produces no pollutants, such as tar, during gasification, is applicable to equipment with large, medium, and small gasification capacities, and has a large adjustment range of gas yield per unit time.

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Citation (search report)

- [X] US 4552078 A 19851112 - MORIN JEAN-XAVIER [FR], et al
- [X] US 4684375 A 19870804 - MORIN JEAN-XAVIER [FR], et al
- See references of WO 2018133303A1

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